CLAIMS

What is claimed is:

- A method for insulating a bonding wire
 comprising the following steps:
 - (a) attaching a bonding wire to a bond pad; and
 - (b) coating the bonding wire with an insulating liquid while drawing the bonding wire through a bond tool from the bond pad to a package lead.

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- 2. The method of claim 1 further comprising after step (b) the step of ceasing to coat the bonding wire with the insulating liquid.
- 3. The method of claim 1 further comprising after step (b) the step of attaching the bonding wire to the package lead.
- 4. The method of claim 1 further comprising 20 after step (b) the step of solidifying the insulating liquid coating the bonding wire.
- 5. The method of claim 4 wherein the step of solidifying the insulating liquid comprises one of heating 25 the bonding wire and exposing the bonding wire to ultraviolet radiation.
- 6. An apparatus for insulating a bonding wire comprising a dispensing tool coupled to a bond tool for 30 forming a coating of an insulating liquid on a bonding wire after the bond tool attaches the bonding wire to a

bond pad.

- 7. The apparatus of claim 6 wherein the dispensing tool moves between a non-coating position for avoiding mechanical interference with the bond tool and a coating position for doating the bonding wire with the insulating liquid.
- 8. The apparatus of claim 6 wherein the
 10 dispensing tool has a nozzle orifice for dispensing the
 insulating liquid that is relatively narrow in a dimension
 parallel to the bonding wire and relatively wide in a
 dimension perpendicular to the bonding wire.
- 9. The apparatus of claim 8 wherein the nozzle orifice has an arcuate shape.
- 10. The apparatus of claim 6 further comprising an energy source coupled to the dispensing tool for20 solidifying the insulating liquid coating the bonding wire.
- 11. The apparatus of claim 10 wherein the energy source is one of a heat source and an ultraviolet light source.

